

CERES Systems Engineering Committee

Members: Maria Mitchum, NASA, DMO

Sandy Nolan, SAIC

Jill Travers, DAAC

Sue Sorlie, DAAC

Charter: Serve as a forum for resolving issues which affect more than one working group. Report to CERES Data Management Team

CERES Policy Statements

Exit Code - March 30, 1999

It was stressed that a PGE's 'exit code' must be captured at the end of the execution and passed through to the final 'exit' command of the PGE. Unless this is done, Fred's epilog will think that all is OK, and downstream processing will not be deterred.

'Mandatory - Optional' File Disposition - July 20, 1999

Singular File:

A Mandatory file is one that is expected at the completion of a 'good exit' PGE. If the 'mandatory' file is 'not there', then that instance of the PGE is considered a failure. In addition the 'mandatory' file's size must be greater than 0 and the associated .met file must exist.

An Optional file may or may not be present at the end of the PGE execution. If the optional file does not exist, the epilogue continues to the next expected file. If the optional file does exist, then the file's size must be greater than 0 and the associated .met file must exist.

File Array:

A Mandatory file array is defined as: at least **one file - out of an array of several files** is expected at the completion of a 'good exit' PGE. If no file exists at the end of the PGE, then that instance of the PGE is considered a failure. In addition the 'mandatory' file's size must be greater than 0 and the associated .met file must exist.

An Optional file array may or may not be present at the end of the PGE execution. If the optional files do not exist, the epilogue continues to the next expected file. If the optional files do exist, then each file's size must be greater than 0 and the associated .met file must exist.

If an array of files are all Mandatory, then each file must be innumerated separately, as in the definition of 'Singular File'. For example: PMOA:

<u>Disposition</u>	<u>FileName</u>
m	CER_PMOA_SS12_PS12_cc9_1.yyyymmF1
m	CER_PMOA_SS12_PS12_cc9_1.yyyymmF2
m	CER_PMOA_SS12_PS12_cc9_1.yyyymmF3
m	CER_PMOA_SS12_PS12_cc9_1.yyyymmF4

Zero-length Files - March 30, 1999

Zero-length files are NOT permitted at the DAAC (Archive System does not support them). Precautions were taken, several years ago, by CERESlib, to insure that NO .met file is created for a zero-length file. It is up to the PGE to 'delete or remove' a zero-length file prior to the final exit from the PGE. The 'delete' command can be used, within the executable, for a temporary file. The 'remove' command must be used in the script for all other (non-temporary) files.

- The epilog script must be enhanced when a failed PGE is encountered. The following actions have been requested:
 1. Send email to responsible Developer.
 2. Package 'all' output files and move them to an appropriate location on /darrin-QA in an associated PGE area. The name of the actual directory is yet TBD.
 3. Clean up all directories.
 4. Notify DAAC Operations of 'Failed' PGE and termination of 'Target PGE(s)' until further notice from the Developer. (This notice does not affect the continuation of the current PGE with new instances.)

F90 Compiler Options - April 18, 2000

All PGEs should include the -32/-n32/-64 flags and mips flags during compilation. These flags are automatically set if the PGEs use the start-up scripts and the makemake features from CERESlib.